

PERMIT APPLICATION: NRS#04.267

APPLICANT: Mr. Bill Powell
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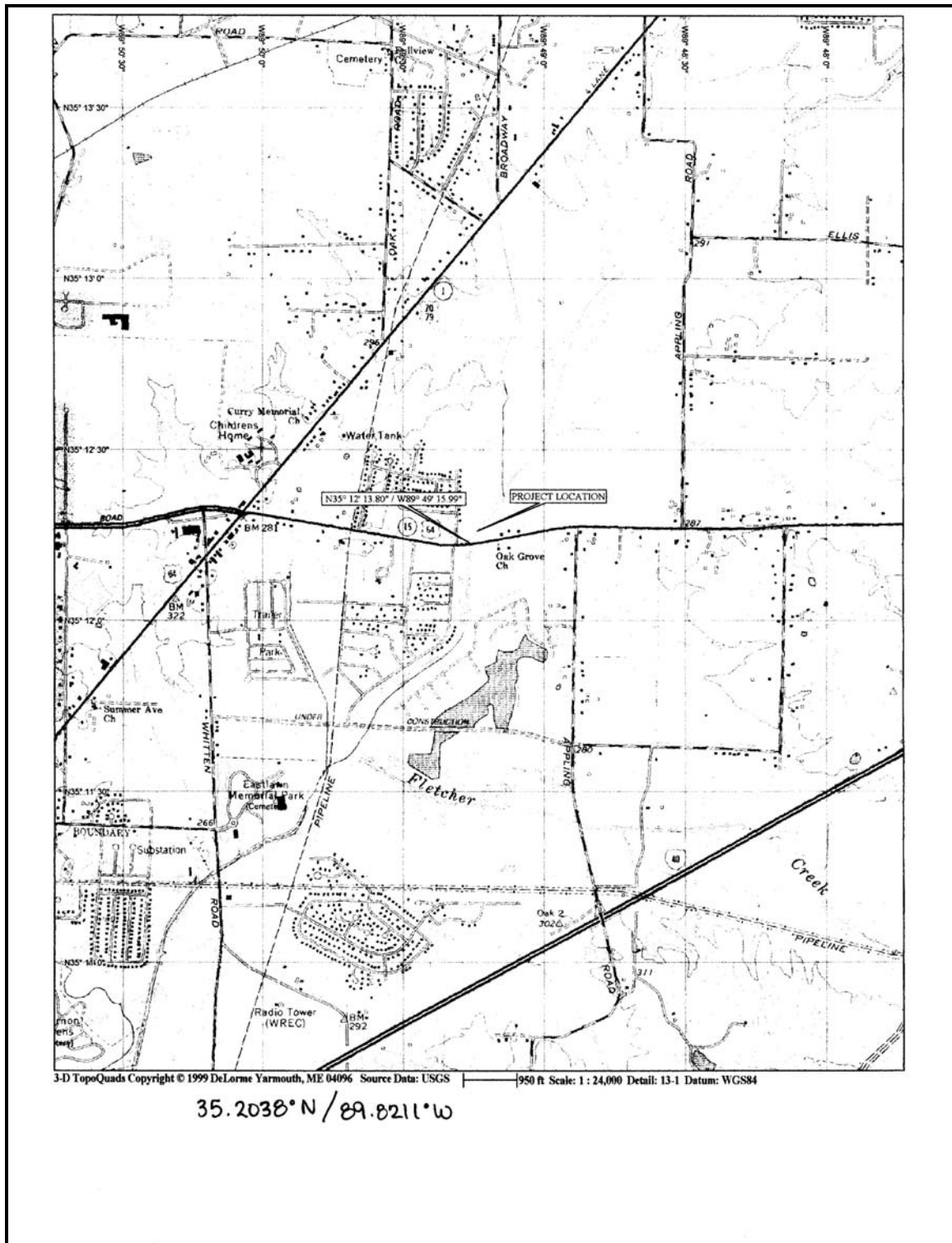
LOCATION: Fletcher Creek
Shelby County

WATERSHED DESCRIPTION: This project is located on the east bank of Fletcher Creek and north of U.S. Highway 64 (Stage Road) at a proposed commercial development in Bartlett, TN. The eastern bank of Fletcher Creek forms the western property boundary. The stream measures approximately 70 feet wide (top of bank to top of bank) with a base flow channel an average of approximately 20 feet wide. The stream substrate is earthen and the bank is generally very steep. A thin buffer of approximately 200 linear feet runs along the top of the east bank immediately north of Highway 64. Woody vegetation in this buffer includes black willow (*Salix nigra*), box elder (*Acer negundo*), honey locust (*Gleditsia triacanthos*), and sweet gum (*Liquidambar styraciflua*) trees and saplings. There are also occasional small eastern red cedar (*Juniperus virginiana*) and loblolly pine (*Pinus taeda*) trees. Ground cover vegetation along the stream bank includes Japanese honeysuckle (*Lonicera japonica*), giant ragweed (*Ambrosia trifida*), and Johnson grass (*Sorghum halepense*).

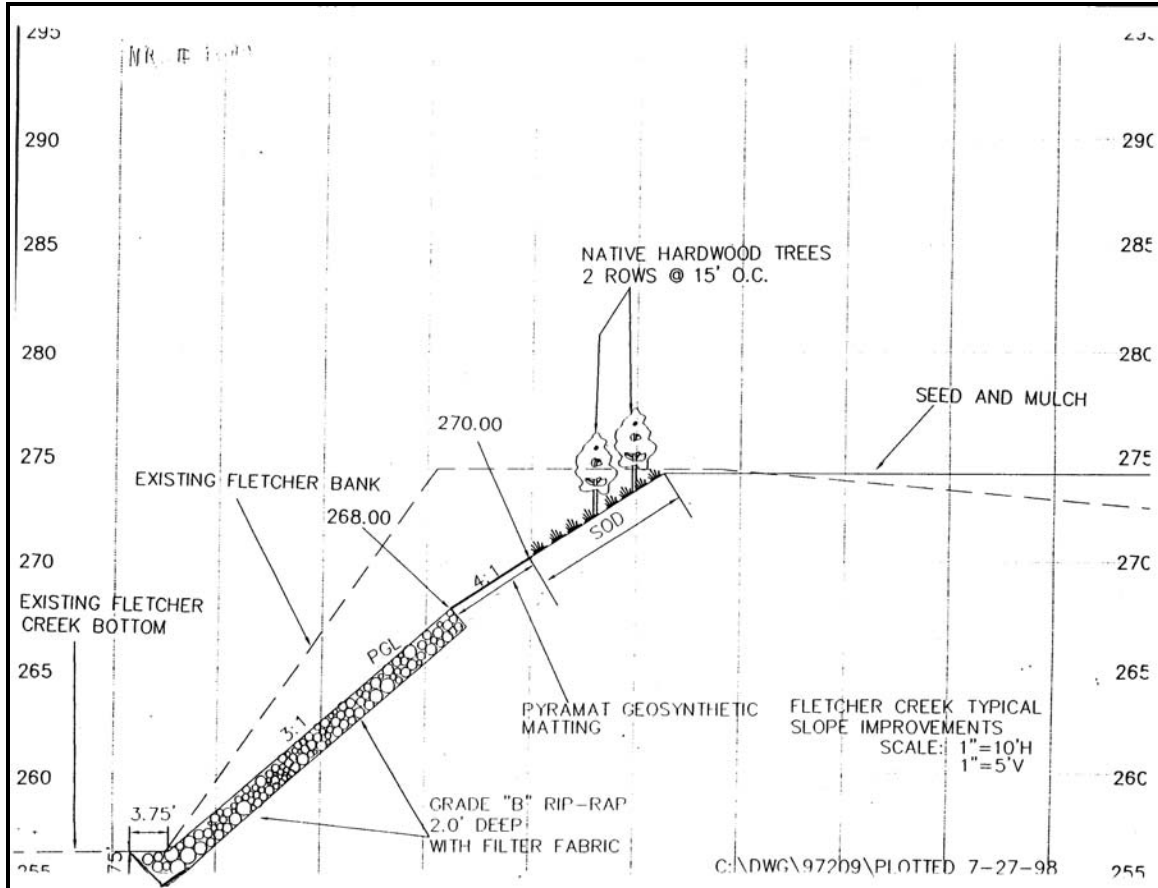
PROJECT DESCRIPTION: The applicant proposes to reshape and stabilize approximately 560 linear feet of the eastern stream bank of Fletcher Creek. The new stream bank will be shaped to a 3:1 slope from the toe of the bank (approximate elevation 257') to an elevation of approximately 268'. This portion of the bank will be stabilized with filter fabric and Grade "B" rip-rap. From this point, the bank will be graded to a 4:1 slope and stabilized with grass sod and erosion control matting to an elevation of 270' (the 100-year flood elevation). From the 270' elevation to the top of bank (approximately 274'), the bank will be shaped to a 4:1 slope and stabilized with sod. Trees will be planted along the entire length of the stabilized portion of the stream immediately above the erosion control matting.

PERMIT COORDINATOR: Kelly Morrison

USGS TOPOGRAPHIC QUADRANGLE: Ellendale (409-NE)



USGS Topographic Map



Channel Cross-section